

Title (en)
POLYAMIDE POLYMER COMPOSITIONS

Title (de)
POLYAMIDPOLYMERZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS DE POLYMÈRE POLYAMIDE

Publication
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Application
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Priority

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Abstract (en)
[origin: US2020062955A1] Described herein are polymer compositions including (i) a polymer blend containing an amorphous polyester copolymer and a semi-crystalline polyamide polymer ("polyester/polyamide blend"), (ii) 1 weight percent (wt. %) to 5 wt. % of an epoxy functionalized impact modifier and optionally (iii) one or more additives. It was surprisingly found that incorporation of a specific amount of an epoxy functionalized impact modifier into polymer compositions including a polyester/polyamide blend provided for significantly improved impact performance, relative to corresponding polymer compositions incorporating non-epoxy functionalized impact modifiers or corresponding polymer compositions free of impact modifiers. Due at least in part to the significantly improved impact performance and outstanding chemical resistance, the polymer compositions described herein can be incorporated in a wide variety of application settings, including but not limited to mobile electronic application settings.

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